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PATENT

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### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE Honeywell Case No. H0002744 (MBHB Ref. No. 06-323)

In the Application of:	) }
Edgar R. Mallison and Tom G. Stratton	) )
Serial No.: 10/693,357	) ) Group Art Unit: 2612
Filing Date: October 24, 2003	) Confirmation No: 2592
For: Well Control and Monitoring System Using High Temperature Electronics	) )

## DECLARATION PURSUANT TO 37 C.F.R § 1.131

We, Edgar R. Mallison, residing at 15808 Post Road, Wayzata, Minnesota 55391, and Tom G. Stratton, residing at 3000 Sandy Hook Drive, Roseville, Minnesota 55113, hereby declare:

- We are the named inventors on U.S. Patent Application Serial No. 10/693,357, filed on October 24, 2003.
- The invention disclosed and claimed in the instant patent application was conceived in the United States by us before July 25, 2003.
- Accompanying this Declaration is a photocopy of an Invention Record (eleven 3. (11) pages) showing conception of our invention before July 25, 2003. Specifically, the photocopies show that the Well Control and Monitoring System Using High Temperature Electronics of the present application was conceived by us before July 25, 2003.
- The dates on the Invention Record have been reducted from the photocopies. However, the dates are before July 25, 2003, the priority date of U.S. Patent Publication No. 2005/0016770.
- I hereby declare further that all statements made herein to my own knowledge are 5. true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so

made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

We, Edgar R. Mallison and Tom G. Stratton, declare under penalty of perjury that the foregoing is true and correct.

Dated:	
Dalou.	

Signed:

Edgar R. Mallison

Dated: 4/5/07

Signed:

Tom G. Stratton

APR 0 5 2007

PATENT

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Serial No.: 10/693,357	Group Art Unit: 2612
Filing Date: October 24, 2003	Confirmation No. 2592
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made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

We, Edgar R. Mallison and Tom G. Stratton, declare under penalty of perjury that the foregoing is true and correct.

Dated april 3, 2007	Signed:	Edgar K Mallison
Dated:	Signed:	Tom G. Stratton

# **EXHIBIT A**

# ATTORNEY-CLIENT PRIVILEGED

Honeywell DAS-Teterboro: On-Line Invention Disclosure System

invention Record

(Docket) No.: H0002744

Origin Date:

SBE: B10 - Plymih,, MN - SOLID STATE ELECT

File Location: MI - Minneapolis, MIN

Tille: High Temperature Electronics Attorney(s): Fredrick, Kris T

SSN: \*\*\*\*\*\*\*\*\* County: Ramsey Address: 3000 Sandy Hook Dr., Roseville, MN 55113 Inventor: Stratton, Thomas G

Fax: 763-954-2824 Phone: 763-954-2824

Supervisor: Brian Link

Citizenship: US

SSN: \*\*\*\*\*\*\*\*

Address: 19610 Cottagewood Rd, Deephaven, MN 55331 Fax: 612-954-2313 Inventor: Goetz, Jay R Phone: 612-954-2520

Supervisor: Brian Link County: Hennipen

> Inventor: Mallison, Edgar R Citizenship: USA

Phone: 763-954-2457

Citizenship: U.S.A.

SSN: \*\*\*\*\*\*\*\*\*

Address: 15808 Post Road, Wayzata, MN 55391 Fax: 763-954-2764

Supervisor: Brian Link County: Hennepin

1. Briefly describe the technical or commercial problem or need that this invention is intended to solve.

See Paper Disclosure B10-26470

2. Briefly describe how this invention solves the problem or meets the need

See Paper Disclosure B10-26470

3. Describe how to make and use the invention. Please indicate which embodiment(s) are preferred and describe the best way known to you to practice the invention. Attach relevant documents. (If the invention is a device or process, please provide a drawing or flow chart.) (If you are unfamiliar with the contents and preparation of a palent application, please refer to the Guidelines for the Preparation of Invention Disclosures.

See Paper Disclosure B10-26470

Document(s)

4(a). To the best of your recollection what is the earliest date on which the invention was conceived? Who conceived the invention? Attach documents which evidence the foregoing.

http://ww2.teb.allied.com/ds/resources/Disclosure/InvDisFormMainAtty.cfm?DisclosureNo=H0002744

Honeywell DAS-Teterboro: On-Line Invention Disclosure System

Conception Date: Document(s):

Who conceived it?: See Paper Disclosure B10-26470

4(b). Is there a non-inventor who witnessed the conception? If so, please identify him/her and attach any documents which evidence the witnessing.

Witness Name: See Paper Disclosure B10-26470

Witness Phone:

made)? Who reduced the invention to practice. Attach documents which evidence the foregoing. If no reduction to 5(a). To the best of your recollection, what is the earliest date on which the invention was reduced to practice (i.e. practice, type "n/a".

See Paper Disclosure B10-26470 First Practice Date:

Who reduced it to practice?:

corroborating activity (i.e., over-the-shoulder corroboration or repeating the experiment), and the date of the activity. 5(b). Is there a non-inventor who corroborated the reduction to practice? If so, please identify him/her, the Attach documents which evidence the foregoing.

First Corroborator Name: Non-inventor corroborator?:

See Paper Disclosure

First Corroborator Phone:

B10-26470

First Practice Corroborator Activity:

See Paper Disclosure B10-26470

Document(s) related to corroboration event:

Corroboration Date:

First Practice

application, please indicate when the example was generated, who conducted the experiment and where this example is recorded (e.g., volume, page and author or laboratory notebook) and attach a copy of these records. If no example 5(c). For each example of the invention and each comparative example on which you intend to rely in the patent available, type "n/a".

Example(s):

Who conducted the experiment?: See Paper Disclosure B10-26470

Where is example recorded?: See Paper Disclosure B10-26470

6(a). Did this invention arise in a program that is funded in whole or part by the U.S. Government or another company, or any entity other than Honeywell?

http://ww2.teb.allied.com/ds/resources/Disclosure/InvDisFormMaiuAtty.cfm?DisclosureNo=H0002744

Honeywell DAS-Teterboro: On-Line Invention Disclosure System

6(b). If so, please identify the program (including government contract number, if applicable) and the entity sponsoring the program and provide a copy of any agreement between the parties concerning the program.

Outside Funding Program: See Paper Disclosure B10-26470 Contract Number (if applicable): See Paper Disclosure B10-26470 Outside Funding Entity: See Paper Disclosure B10-26470 Document(s) related to funding agreement: 7(a). To your knowledge, is this invention subject to any agreement between Honeywell and a third party (e.g., a secrecy agreement, license agreement, joint development agreement, etc.)?

7(b). If so, please identify the agreement and the other party and attach a copy of the agreement if one is available. hard party agreement ID: See Paper Disclosure B10-26470

Third party name: See Paper Disclosure B10-26470

Document(s) related to any third party agreement:

you. If a prior art search has been conducted, it must be included, Briefly indicate how this invention is different from 8. You have a duty to disclose to the U.S. Patent and Trademark Office all relevant prior art of which you are aware. Please list all such prior art (e.g., patents, publications, brochues, Honeywell and third-party products) known to the prior art. See 1 and 2 above.

List of prior art:

See Paper Disclosure B10-26470

How invention is different from the prior art:

See Paper Disclosure B10-26470

9(a). Has the product or process which is the subject of this invention disclosure been disclosed, sold or offered for sale to anyone outside of Honeywell or to the general public. 9(b). If so, when and to whom was it disclosed, sold or offered for sale? If it was disclosed, was a secrecy agreement in place? Attach documents which evidence the sale or offer for sale.

Date it was disclosed:

Whom disclosed to: See Paper Disclosure B10-26470

Disclosure Sales Agreement?:

Document(s) which evidence the sale or offer for sale:

http://ww2.teb.allied.com/ds/resources/Disclosure/InvDisFormMainAtty.cfm?DisclosureNo=H0002744

Honeywell DAS-Teterboro: On-Line Invention Disclosure System

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10(a). Does this invention relate to any other: (i) issued patents, (ii) pending patent applications, or (iii) previously submitted invention disclosures, of Honeywell? 10(b). If so, please identify the related matter and indicate whether this is an improvement on an earlier invention: 11. Please specify the product(s) to which this invention disclosure relates. Signature: Signature: 12. Please indicate keywords for identifying this invention disclosure. Inventor Inventor Inventor Inventor Date: Name: Name: Date: See Paper Disclosure B10-26470 See Paper Disclosure B10-26470 See Paper Disclosure B10-26470 Other patents related matter is: Is this an improvement?: Inventor Signature: Signature Inventor Witness Witness Date: Name: Name: Date:

http://ww2.teb.allied.com/ds/resources/Disclosure/InvDisFormMainAlty.cfm?DisclosureNo=H0002744

Signature:

Signature:

Dute:

Inventor

Inventor

Name:

Date:

Inventor

Inventor

Name:

nventor	Inventor
Varne:	Name:
inventor	Inventor
Signature:	Signature:
Date:	Date:
Send to: Kris T Fredrick The attorney assigned to this disclosure.	

04/05/2007 14:26 FAX 312 913 0002

Honeywell DAS-Teterboro: On-Line Invention Disclosure System

## Honeywell Invention Disclosure Form

Contract No.: \_

## RECEIVED CENTRAL FAX CENTER

APR 0 5 2007

HONEYWELL CONFIDENTIAL AND PROPRIETARY

F OGC Use Only E No.: 55641 - B10 - B470 Atty. assigned to: T-redrick
OGC Date Rec'd

I.D. No: SS-	
Instructions:  (Please print or type)  1. Complete the general information box Immediately below.  2. Complete numbered sections I through 6 to the best of your knowledge inventor signature/information section, and witness signature section page of this form.  3. Send the original of the completed form to the IP Department c/o the names & addresses listed on the second page of this form.  4. Each page of any attached section must be dated and signed by the per two witnesses.  Descriptive Title: Wireless And Self Powered Sensing And Monitoring Device For Pro-	appropriate attorney, using the erson completing that section, and
Measurement Taking	
Account No/Cost Center:  Product invention is or will be associated with, if any:  Production Oil Wells	
Countries where invention is likely to be	
Sold/manufactured:	
1. Describe the invention: Attach a sheet or sheets describing what you feel is the best is and possible variations. The description should be detailed enough to teach a person is technology how to both: (1) make the invention, and (2) use the invention. For mech drawings accompanying your written description are strongly recommended.	mplementation of your inventions, chowledgeable in your area of anical and electrical inventions,
<ul> <li>The problem which you feel the invention overcomes.</li> <li>Ways in which others have attempted to solve this problem. Identify specific write.</li> <li>The problems with previous solutions to the problem.</li> <li>How the invention overcomes the problems of the previous solutions.</li> <li>Potential uses of the invention outside your area of application.</li> </ul>	
3. Invention dates & public disclosure dates: Provide the date of each event, and the appassociated with each event:  What is the earliest written record of your invention. In what document may this record  What is the earliest written record of your invention. The provided the convertion of the con	be found? ing up but would have to find it.
Has a working version of the invention been built? If so, when and where was it comple	eted? Yes: No: X
Date:  Location:  Has the invention been shown or described outside Honeywell without a nondisclosure	<del></del>
agreement?	Yes: No: <u>X</u>
Date:  Location:  Has the invention appeared in any published paper or document or specification?  Document (attach copy):	Yes: No: <u>X</u>
Date:  Is the invention part of a development proposal, been offered for sale, or delivered to a customer or customers (including samples)?	Yes: No:X
Date:  Are there any plans to show or publish the invention?  Date:  Location:  Location:  If funded by SEEDS Initiative	Yes: <u>X</u> No:
Daw	
4. Government or Customer Project Reporting Information Is the invention part of a Government or customer contract requiring reporting? (Customer should be omitted, if secret).	mer Yeş: Na:

## Honeywell Invention Disclosure Form

## HONEYWELL CONFIDENTIAL AND PROPRIETARY

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le No.: 55641	
Atty. assigned to:	
OGC Date Rec'd	

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Mr./Ms./Mrs./Dr.	Jay R. Goetz				
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Home Phone:			Country of Citizenship	);	
	·		Supervisor's Name:		66331
Fax: 19610 Cottagewood	ad Rd	Deephaven	Hennepin	MN	55331
Street Address	od Rea.	City	County (Required)	State	Zip Code
	Edgar R. Mallison	Edgas	Robert May	llian	
Mr./Ms./Mrs./Dr.	ventor's Full Legal No	me (first middle last	Signature		Date
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Home Phone:			Country of Citizenship	p!	
1			Supervisor's Name:		EE701
Fax: 15808 Post Road		Wavzata	Hennepin	MN	55391
Street Address		City	County (Required)	State	Zip Code
	Thomas G. Stratton				
Mr.Ms./Mrs./ <u>Dr</u> .	ventor's Full Legal N.	ame (first middle last	) Signature		Date
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Fax: 3000 Sandy Hool	Drive	Roseville	Ramsev	MN	55113
	101140	City	County (Required)	State	Zip Code
Street Address	Alan Edma Mallie				
Disclosure form pret	ared by: Edgar Mallis	50H			
6 Witnesses Two	witnesses must read	and understand the ir	wention, as submitted.	Each witness shoul	d sign and date
6. Witnesses (Two	witnesses must read a space below, and ther	and understand the ir a sign and date each a	vention, as submitted, mached sheet.)		d sign and date
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# Invention Disclosure

# 2. Provide A Background For The Invention:

Problem Invention Overcomes:

- Non Volatile Memory Doesn't Exist Above 200C
- Very Costly To Wire Retrieve A Remote Unit Down In A Pipe
  - Non Evasive Deployment (Put Inside Pipe)
- Provides Real Time Data To User And Can Store Data
- Is Solution To Taking Measurements In A Pipe Without Modifying Pipe To Connect To External World
  - Is Solution To Intelligent Completion Of Production Wells
- Wireless Communicator
- "Multiple Sensing" Multiple Types And Quantities Of Sensors Using Same Data **Processing Electronics**
- Attached Power Generating Source
- Functions in High Temperature Environments

# Ways Others Have Attempted:

- Battery Storage Of Data And Then Pull It Up To Get Data
- Completion Of Production Oil Wells Or Non Evasive Implementation Of Pipe There Is No Other Supplier That Offers A Complete Solution To Intelligent Flow Characteristics And Health Monitoring Of System

Solid State Electronics Center Honeywell Proprietary

E.Mallison

# Invention Disclosure

2. Provide A Background For The Invention:

**Problem With Previous Solution:** 

- Not Wireless
- Not Real Time
- Not Transmittable To Central Oil Field Control Station Miles Away
- Not Cost Effective
- Not Positioned in Pipe And Forget
- Not High Temperature
- Not Long Life

How Invention Overcome Previous Solution:

- Wireless
- Real Time Data
- No Batteries Required

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- No Stopping Oil Production To Take Readings
- Communicate To Central Oil Field Production Control Station 100 Miles Away
- Generate Its Own Power

E.Maillson

Honeywell Proprietary

# Invention Disclosure

2. Provide A Background For The Invention:

Potential Uses Of Inventions Outside Oil Fields:

- Chemical Plants
- Oil Refineries
- Water Main And Aqueducts Such As Large City Suppliers

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